What is Claimed is:

- 1 1. A mobile-service switching center comprising:
- 2 determining section for determining whether a call request
- 3 is a call from a first multicall communication mode supporting
- 4 terminal which is capable of supporting a plurality of calls
- 5 at a time or from a single-call communication mode supporting
- 6 terminal which is capable of supporting only a single call at
- 7 a time;
- 8 event detecting section for detecting event caused by a
- 9 handover occurrence or fluctuation of congesting state; and
- 10 call-number changing section capable of changing the
- 11 number of continuing calls of the first multicall communication
- 12 mode supporting terminal which is determined by the determining
- 13 section, when an event is detected by the event detecting section
- 14 detects any event during the communication.
 - 1 2. A mobile-service switching center according to claim 1,
 - 2 wherein the call-number changing section comprises:
 - 3 special message notifying section capable of transmitting
 - 4 a special message having inserted therein the number of calls
 - 5 changing information regarding the increases and decreases of
 - 6 the plurality of calls, to a base station controller for
 - 7 controlling a base station and the first multicall communication
 - 8 mode supporting terminal;
 - 9 reply receiving section for receiving a reply regarding
- 10 a desired call to continue which is selected by the first multicall

- 11 communication mode supporting terminal from the plurality of
- 12 calls which are notified by the special message notifying
- 13 section; and
- 14 handover rearranging section for rearranging the
- 15 connection status in such a manner that the desired call to
- 16 continue which is designated in the reply received by the reply
- 17 receiving section is maintained and an undesired call which is
- 18 not selected by the first multicall communication mode supporting
- 19 terminal is disconnected.
 - 1 3. A mobile-service switching center apparatus according to
 - 2 claim 1, wherein the call-number changing section comprises:
 - 3 call selecting section for selecting a call to be
 - 4 disconnected from the plurality of calls under communication
 - 5 based on a predetermined condition;
 - 6 call disconnect notifying section for transmitting a call
 - 7 disconnect message to the first multicall communication mode
 - 8 supporting terminal corresponding to the disconnected call
 - 9 selected by the call selecting section;
- 10 reply receiving section capable of receiving a reply
- 11 regarding a desired call to continue selected by the first
- 12 multicall communication mode supporting terminal which received
- 13 the disconnect message from the call disconnect notifying
- 14 section; and
- 15 handover rearranging section for maintaining connection
- 16 corresponding to the desired call to continue which is designated
- 17 by the reply received by the reply receiving section and

- 18 disconnect an undesired call to continue selected from the
- 19 plurality of calls by the first multicall communication mode
- 20 supporting terminal.
 - 1 4. A mobile-service switching center according to claim 3,
 - 2 wherein the call selecting section comprises:
 - 3 priority data holding section for giving priority data
 - 4 to the calls under communication and holding the priority data;
 - 5 and
 - 6 output section for outputting the data designating the
 - 7 call to be disconnected based on the priority data held by the
 - 8 priority data holding section when connection service
 - 9 restriction deriving from the event is relaxed.
 - 1 5. A mobile-service switching center according to claim 3,
 - 2 wherein the call selecting section is arranged to disconnect
 - 3 based on information regarding priority of call contained in
 - 4 a predetermined region of the call disconnect message.
 - 1 6. A mobile-service switching center according to claim 3,
 - 2 wherein the call selecting section is arranged to select a call
 - 3 based on information contained in the subscriber's data which
 - 4 is sent from a home location register to a visitor location
 - 5 register.
 - 1 7. A mobile-service switching center according to claim 3,
 - 2 wherein the call selecting section is arranged to disconnect

- 3 based on a selecting algorism prepared for each subscriber.
- 1 8. A mobile-service switching center apparatus according to
- 2 claim 7, wherein the selecting algorism is arranged based on
- 3 the priority which is determined in accordance with the
- 4 connection sequence of a plurality of calls under communication.
- 1 9. A mobile-service switching center apparatus according to
- 2 claim 7, wherein the selecting algorism is arranged based on
- 3 quality of service data indicative of the grade of a transmitted
- 4 signal, and the call selecting section selects a call to continue
- 5 in accordance with the selecting algorism.
- 1 10. A mobile-service switching center apparatus according to
- 2 claim 2, wherein the call-number changing information is arranged
- 3 to make the first multicall communication mode supporting
- 4 terminal emanate an alarming sound changing step by step so as
- 5 to correspond to the status taken by the call-number changing
- 6 information.
- 1 11. A base station controller comprising:
- 2 holding section capable of holding a plurality of calls
- 3 communicating with each of base stations located near the base
- 4 station controller at a time;
- 5 detecting section for detecting at least a status that
- 6 a handover is requested and determining a status that all of
- 7 the calls held by the holding section cannot be handled upon

- 8 handover in the multicall communication mode based on the number
- 9 of calls held by the holding section;
- 10 notifying section for transmitting a special message
- 11 regarding the number of calls allowable to continue to the
- 12 multicall communication mode supporting terminal which has
- 13 generated a handover request detected by the detecting section;
- 14 reply receiving section capable of receiving a reply
- 15 designating a desired call to continue which the multicall
- 16 communication mode supporting terminal selects from the
- 17 plurality of calls notified by the notifying section; and
- 18 transmitting section for transmitting data indicative of
- 19 the desired call to continue which is designated by the message
- 20 received by the reply receiving section, to a mobile-service
- 21 switching center.
 - 1 12. A multicall communication mode supporting terminal
 - 2 comprising:
 - 3 receiving section for receiving a special message
 - 4 regarding the increases and decreases of a plurality of calls
 - 5 and extracting call-number change information from the special
 - 6 message;
 - 7 presenting section for displaying the plurality of calls
 - 8 under communication which is identified by the call-number
 - 9 changing information extracted by the receiving section, to the
- 10 user of the multicall communication mode supporting terminal
- 11 in a visual manner or an audible manner in accordance with the
- 12 call-number change information extracted by the receiving

- 13 section;
- input section arranged to permit the user of the multicall
- 15 communication mode supporting terminal to carry out input
- 16 operation for selecting a desired call to continue from the
- 17 plurality of calls presented by the presenting section; and
- transmitting section for transmitting information
- 19 regarding the desired call to continue which is selected by the
- 20 input section to a corresponding base station.
 - 1 13. A method of changing the number of calls in a multicall
 - 2 communication mode for use in a switching center system which
 - 3 comprises a first multicall communication mode supporting
- 4 terminal for transmitting and receiving a radio signal, a base
- 5 station controller for controlling a base station, and a
- 6 mobile-service switching center for transmitting and receiving
- 7 information regarding a plurality of calls so that a
- 8 communication status is settled between the first multicall
- 9 communication mode supporting terminal and the base station
- 10 controller, the method comprising:
- 11 a step of detecting an event caused by an occurrence of
- 12 handover and a fluctuation in congesting state of a network;
- a step of notifying a special message having inserted
- 14 therein call-number changing information regarding the
- 15 increases and decreases of call-numbers to a switching center
- 16 as a connection destination connected by the handover when the
- 17 event is detected at the event detecting step;
- 18 a step of receiving a reply regarding a desired call to

- 19 continue selected by the first multicall communication mode
- 20 supporting terminal from the plurality of calls notified by the
- 21 special message created at the special message notifying step;
- 22 and
- 23 a step of rearranging the handover in such a manner that
- 24 the desired call to continue designated by the reply received
- 25 at the reply receiving step is maintained in connection and an
- 26 undesired call to continue, the undesired call is not selected
- 27 from the plurality of calls by the first multicall communication
- 28 mode supporting terminal.
 - 1 14. A method of changing the number of calls in a multicall
 - 2 communication mode according to claim 13, wherein the special
 - 3 message notifying step is arranged such that if the
 - 4 mobile-service switching center receives a call request sent
 - 5 from a second multicall communication mode supporting terminal
 - 6 other than the first multicall communication mode supporting
 - 7 terminal, then the mobile-service switching center inserts
 - 8 call-number decreasing information for decreasing the number
 - 9 of calls into the special message, and
- 10 the handover rearranging step is arranged such that the
- 11 mobile-service switching center transmits a reply regarding the
- 12 call request by using a communication line which becomes vacant
- 13 by disconnecting the undesired call to continue designated at
- 14 the special message notifying step.
- 1 15. A method of changing the number of calls in a multicall

- 2 communication mode according to claim 13, wherein the special
- 3 message notifying step is arranged to comprise:
- 4 a step of notifying the base station controller of
- 5 information regarding the base station controller as a connection
- 6 destination to be connected by the handover to the base station
- 7 controller upon transmitting a special message;
- a step of receiving call-number changing information
- 9 regarding the number of calls allowable to the call-number
- 10 changing information transmitted from the base station
- 11 controller as a connection destination notified at the base
- 12 station controller notifying step; and
- a step of transmitting the call-number changing
- 14 information which is received at the call-number changing
- 15 information receiving step, to the first multicall mode
- 16 supporting terminal.
 - 1 16. A method of changing the number of calls in a multicall
 - 2 communication mode for use in a switching system which comprises
 - 3 a first multicall communication mode supporting terminal for
 - 4 transmitting and receiving a radio signal, a base station
- 5 controller for controlling a base station, and a mobile-service
- 6 switching center for transmitting and receiving information
- 7 regarding a plurality of calls so that a communication status
- 8 is settled between the first multicall communication mode
- 9 supporting terminal and the base station controller, the method
- 10 comprising:
- 11 a first transmitting step for transmitting a handover

- 12 request from the mobile-service switching center to a
- 13 mobile-service switching center as a connection destination to
- 14 be connected by the handover;
- 15 a second transmitting step for transmitting a message
- 16 containing data indicative of a number of calls allowable to
- 17 continue based on the capacity and the congesting state of the
- 18 mobile-service switching center as a connection destination,
- 19 the message is transmitted from the mobile-service switching
- 20 center as a connection destination at the first transmitting
- 21 step; and
- 22 a call-number notifying step for transmitting a message
- 23 indicative of an additional number of calls allowable to continue
- 24 from the mobile-service switching center to the first multicall
- 25 communication mode supporting terminal, if the number of calls,
- 26 the number is contained in the message sent at the second
- 27 transmitting step, allowable to continue is larger than the
- 28 current number of calls supported by the first multicall
- 29 communication mode supporting terminal.
 - 1 17. A method of changing the number of calls in a multicall
 - 2 communication mode according to claim 16, wherein the call-number
 - 3 notifying step is arranged such that the mobile-service switching
 - 4 center further transmits a command message to the first multicall
 - 5 communication mode supporting terminal which is obliged to
 - 6 decrease the number of calls to continue so that a connection
 - 7 status is rearranged in accordance with the decreased number
 - 8 of calls allowable to continue.

- 1 18. A method of changing the number of calls in a multicall
- 2 communication mode according to claim 16, wherein the call-number
- 3 notifying step is arranged such that the mobile-service switching
- 4 center notifies the first multicall communication mode
- 5 supporting terminal that the communication channel cannot be
- 6 changed while maintaining communication status upon the event
- 7 deriving from the occurrence of the handover and fluctuation
- 8 of the network congestion state.